



7-7-04

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Practitioner's Docket No. 1012-138C1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Damian A. Hajduk et al.

Application No.: 10/715,159

Group No.: 2857

Filed: November 17, 2003

Examiner: Unknown

For: HIGH THROUGHPUT MECHANICAL PROPERTY TESTING OF MATERIALS
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Commissioner for Patents

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Applicants submit this statement in accordance with their duty of disclosure under 37 CFR 1.56 and 1.97-1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

Listings on forms PTO/SB/08A and PTO/SB/08B are submitted herewith. Copies of cited references have not been provided due to their presence in the parent application. Applicants respectfully solicit the Examiner's consideration of the cited references and entry thereof into the record of this application.

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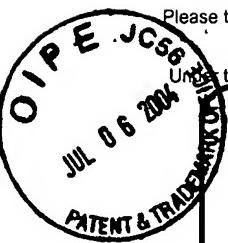
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Sheet 1 of 1 Attorney Docket Number 1012-138C1

Complete if Known

Application Number	10/715,159
Filing Date	11/17/2003
First Named Inventor	Damian A. Hajduk et al.
Group Art Unit	2857
Examiner Name	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	6,242,623 B1			Boussie et al.	06/05/2001	
	6,225,487 B1			Guram	05/01/2001	
	6,225,550 B1			Hornbostel et al.	05/01/2001	
	6,248,540 B1			Weinberg et al.	06/19/2001	
	6,260,407 B1			Petro et al.	07/17/2001	
	6,265,601 B1			Guram et al.	07/24/2001	
	6,265,226 B1			Petro et al.	07/24/2001	
	6,268,513 B1			Guram et al.	07/31/2001	
	6,294,388 B1			Petro	09/25/2001	
	6,296,771 B1			Miroslav	10/02/2001	
	6,092,414			Newman	07/25/2000	
	6,050,138			Lynch et al.	04/18/2000	
	6,040,193			Winkler et al.	03/21/2000	
	6,033,913			Morozov et al.	03/07/2000	
	6,010,616			Lewis et al.	01/04/2000	
	5,999,887			Giannakopoulos et al.	12/07/1999	
	5,922,967			Motoyama	07/13/1999	
	5,892,157			Syre	04/06/1999	
	5,877,428			Scolton	03/02/1999	
	5,847,283			Finot et al.	12/08/1998	

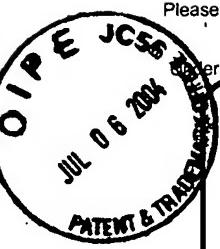
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number 10/715,159
				Filing Date 11/17/2003
				First Named Inventor <u>Damian A. Hajduk et al.</u>
				Group Art Unit 2857
				Examiner Name
Sheet	1	of	1	Attorney Docket Number 1012-138C1

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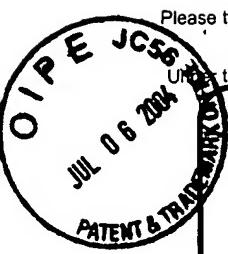
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			Filing Date	11/17/2003	
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		Number	Kind Code ² (if known)			
	1,870,412	Kennedy		08/09/1932		
	3,071,961	Heigl et al.		01/08/1963		
	3,675,475	Weinstein		07/11/1972		
	3,713,328	Aritomi		01/30/1973		
	3,798,960	Glass		03/26/1974		
	3,805,598	Corcoran		04/23/1974		
	3,818,751	Karper et al.		06/25/1974		
	3,849,874	Jeffers		11/26/1974		
	3,895,513	Richardson		07/22/1975		
	3,908,441	Virloget		09/30/1975		
	3,933,032	Tschoegl		01/20/1976		
	4,229,979	Greenwood		10/28/1980		
	4,447,125	Lazay et al.		05/08/1984		
	4,517,830	Gunn, deceased et al.		05/21/1985		
	4,567,774	Manahan et al.		02/04/1986		
	4,570,478	Soong		02/18/1986		
	4,599,219	Cooper et al.		07/08/1986		
	4,602,501	Hirata		07/29/1986		
	4,680,958	Ruelle et al.		07/21/1987		
	4,685,328	Huebner et al.		08/11/1987		

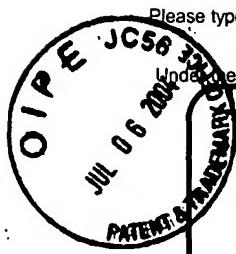
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		Office ³	Number ⁴			
		JP	402297040A	Akaha Toru	12/07/1990	
		WO	00/51720	Symyx Technologies, Inc.	09/08/2000	
		WO	00/17413	Symyx Technologies	03/30/2000	
		WO	96/11878	Univ. of CA	04/25/1996	
		WO	98/15501	Symyx Technologies	04/16/1998	
		WO	99/18431	Symyx Technologies	04/15/1999	
		EP	0317356A2	Chichibu Cement	05/24/1989	

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Application Number	09/938,994
Filing Date	08/24/2001
First Named Inventor	Damian A. Hajduk
Group Art Unit	1754
Examiner Name	
Attorney Docket Number	1012-138

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
	4,740,078			Daendliker et al.	04/26/1988	
	4,749,854			Martens	06/07/1988	
	4,789,236			Hodor et al.	12/06/1988	
	4,793,174			Yau	12/27/1988	
	4,829,837			Telfer	05/16/1989	
	4,893,500			Fink-Jensen	01/16/1990	
	4,899,575			Chu et al.	02/13/1990	
	4,932,270			Lurie et al.	06/12/1990	
	5,008,081			Blau et al.	04/16/1991	
	5,051,239			von der Goltz	09/24/1991	
	5,115,669			Fuller et al.	05/26/1992	
	5,142,900			Duke	09/01/1992	
	5,193,383			Burnham et al.	03/16/1993	
	5,236,998			Lundeen et al.	08/17/1993	
	5,271,266			Eschbach	12/21/1993	
	5,272,912			Katsuzaki	12/28/1993	
	5,280,717			Hoseney et al.	01/25/1994	
	5,303,030			Abraham et al.	04/12/1994	
	5,305,633			Weissenbacher et al.	04/26/1994	
	5,452,619			Kawanabe et al.	09/26/1995	

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		Filing Date	08/24/2001	
		First Named Inventor	Damian A. Hajduk	
		Group Art Unit	1754	
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Sheet	3	of	3	
			Attorney Docket Number	1012-138

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		Number	Kind Code ² (if known)			
	5,481,153			Turner	01/02/1996	
	5,610,325			Rajagopal et al.	03/11/1997	
	5,626,779			Okada	05/06/1997	
	5,699,159			Mason	12/16/1997	
	5,700,953			Hlady et al.	12/23/1997	
	5,728,532			Ackley	03/17/1998	
	5,756,883			Forbes	05/26/1998	
	5,764,068			Katz et al.	06/09/1998	
	5,821,407			Sekiguchi et al.	10/13/1998	
	6,306,658			Turner et al.	10/23/2001	
	6,315,923			Devenney et al.	11/13/2001	
	6,326,090			Schultz et al.	12/04/2001	
	6,050,139			Bousfield et al.	04/18/2000	
	6,336,353B1			Matsiev et al.	01-2002	
	6,438,497B1			Mansky et al.	08-2002	
	5,103,557			Leedy, Glenn J.	04-1992	
	4,715,007			Fujita et al.	12-1987	
	6,489,776B1			Stowe et al.	12-2002	

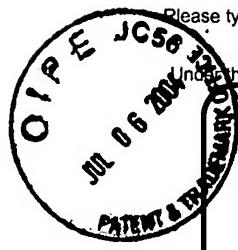
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Sheet

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		Number	Kind Code ² (if known)			
	5,776,359			Schultz et al.	07/07/1998	
	5,959,297			Weinberg et al.	09/28/1999	
	5,985,356			Schultz et al.	11/16/1999	
	6,004,617			Schultz et al.	12/21/1999	
	6,013,199			McFarland et al.	01/11/2000	
	6,030,917			Weinberg et al.	02/29/2000	
	6,034,775			McFarland et al.	03/07/2000	
	6,034,240			La Pointe	03/07/2000	
	6,043,363			LaPointe et al.	03/28/2000	
	6,045,671			Wu et al.	04/04/2000	
	6,087,181			Cong	07/11/2000	
	6,124,476			Guram et al.	09/26/2000	
	6,151,123			Nielsen	11/21/2000	
	6,149,882			Guan et al.	11/21/2000	
	6,157,449			Hajduk	12/05/2000	
	6,175,409 B1			Nielsen et al.	01/16/2001	
	6,177,528 B1			LaPointe et al.	01/23/2001	
	6,182,499 B1			McFarland et al.	02/06/2001	
	6,187,164 B1			Warren et al.	02/13/2001	
	6,203,726 B1			Danielson et al.	03/20/2001	

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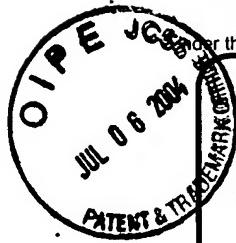
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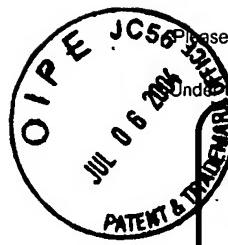
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		U.S. Application Serial No. 09/420,334 entitled " Graphic Design of Combinatorial Material Libraries" (Lacy, et al.) filed on October 18, 1999
		U.S. Patent Application Serial No. 09/305,830 titled "Synthesizing Combinatorial Libraries of Materials" (Rust, et al.) filed on May 5, 1999
		U.S. Application Serial No. 09/550,549 entitled "Automated Process Control And Data Management System And Methods" (Crevier, et al.) filed on April 14, 2000
		U.S. Application Serial No. 09/755,623 entitled "Laboratory Database System and Methods For Combinatorial Materials Research" (Dorsett, Jr., et al.) filed on January 5, 2001.
		The family of applications for U.S. Application Serial No. 09/227,558 entitled, "Apparatus and Method of Research for Creating and Testing Novel Catalysts, Reactions and Polymers" (Turner et al.) filed January 8, 1999
		U.S. Application Serial No. 09/235,368 entitled "Polymerization Method From the Combinatorial Synthesis and Analysis of Organometallic Compounds and Catalysts" (Weinberg et al.) filed on January 21, 1999
		U.S. Provisional Application Serial No. 60/122,704 entitled "Controlled, Stable Free Radical Emulsion and Water-Based Polymerizations" (Klaerner et al.) filed on March 9, 1999
		The family of applications for U.S. Application Serial No. 09/567,598 entitled "Polymer Libraries on a Substrate, Method for Forming Polymer Libraries on a Substrate and Characterization Methods with Same" (Boussie et al.) filed May 10, 2000
		The family of applications for U.S. Patent Application Serial No. 09/174,856 titled "Graphic Design of Combinatorial Material Libraries" (Lacy, et al.) filed on October 19, 1998.
		ODIAN, Principles of Polymerization, 3rd Ed., John Wiley & Sons, Inc. (1991)
		TIMOSHENKO, S., Theory of Plates and Shells, McGraw-Hill, New York 1940

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		Filing Date	11/17/2003
		First Named Inventor	Damian A. Hajduk et al.
		Group Art Unit	2857
		Examiner Name	
		Attorney Docket Number	1012-138C1

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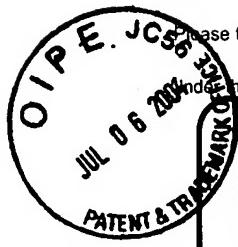
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"DMA 2980 Dynamic Mechanical Analyer," http://www.tainst.com/dma2.html , 12/29/00	
		"Introducing the NEW DMTA V!", http://www.rheometricscientific.com/dmtaV.htm , 12/29/00	
		"Standard Test Method for Rubber Property-International Hardness," American Society for Testing and Materials	
		AMITAY-SADOVSKY, ELLA and H. Daniel Wagner, "Evaluation of Young's Modulus of Polymers from Knoop Microindentation Tests" Polymer Communications, 1998, vol. 39, no. 11, pp. 2387-2390.	
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		BOWLT, C., "A Simple Capillary Viscometer" Physics Education, March 1975, vol. 10, no. 2, pp. 102-103	
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		SHINOZAKI, D.M. and Y. Lu, "Micro-Indentation Relaxation Measurements in Polymer Thin Films" Journal of Electronic Materials, 1997, vol. 26, no. 7, pp. 852-858	
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		European Search Report dated December 10, 2001	

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/715,159
Sheet	1	Filing Date	11/17/2003
		First Named Inventor	Damian A. Hajduk et al.
		Group Art Unit	2857
		Examiner Name	
		Attorney Docket Number	1012-138C1

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		U.S. Patent Application Serial No. 09/939,404 entitled "High Throughput Mechanical Property and Bulge Testing of Material Libraries," (D. Hajduk et al.) filed on August 24, 2001.	
		U.S. Patent Application Serial No. 09/939,252 entitled "High Throughput Mechanical Rapid Serial Property Testing of Material Libraries," (P. Mansky) filed on August 24, 2001.	
		U.S. Patent Application Serial No. 09/939,139 entitled "High Throughput Fabric Handle Screening," (M. Kossuth et al.) filed on August 24, 2001.	
		U.S. Patent Application Serial No. 09/939,149 entitled "High Throughput Rheological Testing of Materials," (P. Mansky et al.) filed on August 24, 2001.	
		U.S. Patent Application Serial No. 09/939,263 entitled "High Throughput Mechanical Property Testing of Materials Libraries Using Capacitance," (D. Hajduk et al.) filed on August 24, 2001.	
		The family of applications for U.S. Patent Application Serial No. 09/580,024 entitled "Instrument for High Throughput Measurement of Material Physical Properties and Method of Using Same," (Carlson, et al.) filed on May 26, 2000	
		U.S. Application Serial No. 09/801,165 entitled "Method and Apparatus for Characterizing Materials By Using a Mechanical Resonator" filed March 7, 2001	
		U.S. Application Serial No. 09/578,997 entitled "High Throughput Viscometer and Method of Using Same" filed May 25, 2000	
		PCT Application No. PCT/US01/11417 entitled "Automated Process Control and Data Management System and Methods", filed 4/6/2001	

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		YOUNG, W.C., Roark's Formulas for Stress and Stain, 1989	
		OSTERBERG, Peter M. and Stephen D. Senturia, "M-TEST: A Test Chip for MEMS Material Property Measurement Using Electrostatically Actuated Test Structures," Journal of Microelectromechanical Systems, Vol. 6, No. 2, June 1997	
		KIM, J.O. and B. Lewis Slaten, "Objective Assessment of Fabric Handle in Fabrics Treated With Flame Retardants," Journal of Testing and Evaluation, JTEVA, Vol. 24, No. 4, July 1996, pp. 223-228.	
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		RAEEL, MASTURA and Jiang Liu, "An Empirical Model for Fabric Hand" Textile Research Journal 62, 1, pp. 31-38 (1991).	
		ALI, S.I. and Shahida Begum, "Fabric Softeners and Softness Perception", Ergonomics, v.37, No. 5, pp. 801-806 (1994).	

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